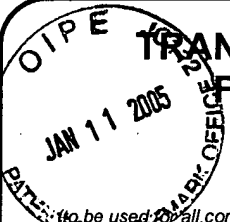


DACE#  
[Signature]

	Application Number	09/832,738	
	Filing Date	April 10, 2001	
	First Named Inventor	Robert W. Corrigan	
	Art Unit	2611	
	Examiner Name	Nalevanko, Christopher R	
Total Number of Pages in This Submission	20	Attorney Docket Number	SLM-05800 (P0076)

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form (Induplicate) <input checked="" type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input checked="" type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Statement Establishing Unintentional Delay; Return Receipt Postcard
Remarks  		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	OKAMOTO & BENEDICTO LLP		
Signature	[Signature]		
Printed Name	James K. Okamoto		
Date	January 6, 2005	Reg. No.	40,110

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature	[Signature]		
Typed or printed name	James K. Okamoto	Date	January 6, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# **FEE TRANSMITTAL for FY 2005**

☐ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ 1,500)

## **Complete if Known**

Application Number	09/832,738
Filing Date	April 10, 2001
First Named Inventor	Robert W. Corrigan
Examiner Name	Nalevanko, Christopher R
Art Unit	2611
Attorney Docket No.	SLM-05800 (P0076)

## **METHOD OF PAYMENT (check all that apply)**

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify) : \_\_\_\_\_  
☒ Deposit Account Deposit Account Number: 50-2427 Deposit Account Name: Okamoto & Benedicto LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) ☒ Credit any overpayments  
Under 37 CFR 1.16 and 1.17

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## **FEE CALCULATION**

### **1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

### **2. EXCESS CLAIM FEES**

#### **Fee Description**

Each claim over 20 (including Reissues)  
Each independent claim over 30 (including Reissues)  
Multiple dependent claims

	Small Entity Fee (\$)	Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 30 (including Reissues)	200	100
Multiple dependent claims	360	180
<b>Multiple Dependent Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____ -20 or HP= _____ x _____ = _____	_____	_____

**Total Claims** \_\_\_\_\_ **Extra Claims** \_\_\_\_\_ **Fee(\$)** \_\_\_\_\_ **Fee Paid (\$)** \_\_\_\_\_  
HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims** \_\_\_\_\_ **Extra Claims** \_\_\_\_\_ **Fee(\$)** \_\_\_\_\_ **Fee Paid (\$)** \_\_\_\_\_  
HP = highest number of independent claims paid for, if greater than 3.

### **3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).


**Total Sheets** \_\_\_\_\_ **Extra Sheets** \_\_\_\_\_ **Number of each additional 50 or fraction thereof** \_\_\_\_\_ **Fee (\$)** \_\_\_\_\_ **Fee Paid (\$)** \_\_\_\_\_  
\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

### **4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)  
Other (e.g., late filing surcharge): Petition Fee

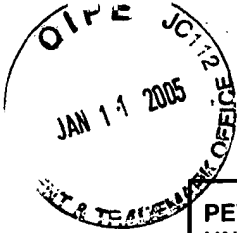
**Fees Paid (\$)**  
1,500

## **SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	40,110	Telephone	(408) 436-2110
Name (Print/Type)	James K Okamoto	Date	1/6/05		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED  
UNINTENTIONALLY UNDER 37 CFR 1.137(b)**

Docket Number (Optional)  
SLM-00000 (P0076)

First named inventor: Robert W. Corrigan, et al.

Application No.: 09/832,738

Art Unit: 2611

Filed: April 10, 2001

Examiner: Nalevanko, Christopher R

Title: Method, System and Display Apparatus for Encrypted Cinema

Attention: Office of Petitions

**Mail Stop Petition**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FAX: (703) 872-9306

NOTE: If information or assistance is needed in completing this form, please contact  
Petitions Information at (703) 305-9282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.

**APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION**

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee – required for all utility and plant applications filed before June 8, 1995; and for all design applications; and
- (4) Statement that the entire delay was unintentional.

**1. Petition fee**

☐ Small entity - fee \$ \_\_\_\_\_ (37 CFR 1.17(m)). Applicant claims small entity status. See 37 CFR 1.27.

☒ Other than small entity - fee \$ 1,500 (37 CFR 1.17(m))

**2. Reply and/or fee**

A. The reply and/or fee to the above-noted Office action in  
the form of Amendment and Response to Office Action (identify type of reply):

☒ has been filed previously on July 16, 2004.

☐ is enclosed herewith.

B. The issue fee of \$ \_\_\_\_\_

☐ has been paid previously on \_\_\_\_\_.

☐ is enclosed herewith.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

01/12/2005 MAHME1 00000045 09832738

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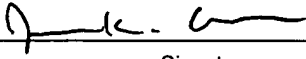
1500.00 OP

3 Terminal disclaimer with disclaimer fee

- ☒ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- ☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$\_\_\_\_\_ for a small entity or \$\_\_\_\_\_ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT. The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D))].

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	January 6, 2005
Signature	Date
James K. Okamoto	40,110
Typed or printed name	Registration Number, if applicable
P.O. Box 641330	(408) 436-2110
Address	Telephone Number
San Jose, CA 95164-1330	
Address	

- Enclosures: ☒ Fee Payment
- ☒ Reply
- ☐ Terminal Disclaimer Form
- ☒ Additional sheets containing statements establishing unintentional delay
- ☒ Other : Return Receipt Postcard

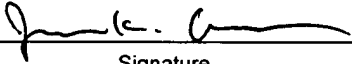
CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(A)]

I hereby certify that this correspondence is being:

- ☒ deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
- ☐ transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703) 872-9306.

January 6, 2005

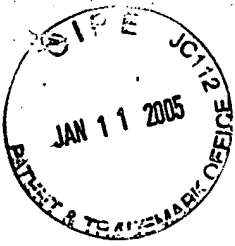
Date



Signature

James K. Okamoto

Typed or printed name of person signing certificate



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Robert W. Corrigan, et al.	Examiner: Nalevanko, Christopher R
Serial No.: 09/832,738	Art Unit: 2611
Filed: April 10, 2001	Atty. Docket No.: SLM-05800 (P0076)
Title: Method, System and Display for Encrypted Cinema	

Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

STATEMENT ESTABLISHING UNINTENTIONAL DELAY

Sir:

I, James K. Okamoto, of Okamoto & Benedicto LLP, hereby state that the attached copy of Amendment and Response to Office Action filed on July 16, 2004, was responsive to the office action mailed on April 26, 2004 in the above-identified application.

The Application Number on the response was typed by myself in error without deceptive intent to be "10/832,738", rather than the correct application number of "09/832,738". The error being in that a series number of "10" was typed instead of the correct series number of "09". A handwritten correction of this error is on the attached copy.

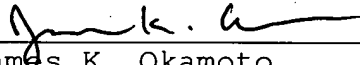
Note that other identifying information on the top of the Amendment and Response to Office Action was correct, including the inventors, filing date, title, examiner, and art unit.

I received the Notice of Abandonment yesterday, as it was forwarded by previous counsel Haverstock & Owens LLP. Upon review of the file, I discovered the unintentional error.

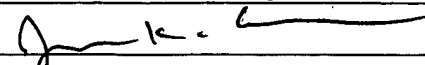
It is respectfully requested that the above-referenced patent application be revived and the attached Amendment and Response to Office action be entered.

Favorable action is respectfully solicited.

Respectfully submitted,  
Robert W. Corrigan, et al.

Dated: January 6, 2005 By:   
James K. Okamoto  
Attorney For Applicant(s)  
Reg. No. 40,110  
OKAMOTO & BENEDICTO LLP  
P.O. Box 641330  
San Jose, California 95164  
(408) 436-2110  
(408) 436-2114 (FAX)

Enclosure(s)

CERTIFICATE OF MAILING			
I hereby certify that this correspondence, including the enclosures identified herein, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. If the Express Mail Mailing Number is filled in below, then this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service pursuant to 37 CFR 1.10.			
Signature:			
Typed or Printed Name:	James K. Okamoto	Dated:	January 6, 2005
Express Mail Mailing Number (optional):			



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Examiner: Nalevanko, Christopher R.

Robert Corrigan and  
Paul Alioshin

Serial No. ~~10~~832,738  
09

Art Unit: 2611

Filing Date: April 10, 2001

Attorney Docket No.: SLM-05800

Title: Method, System and Display Apparatus for Encrypted Cinema

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Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE TO OFFICE ACTION

Sir:

This Amendment and Response to Office Action is responsive to the Office  
Action mailed on April 26, 2004.

## Amendments to the Specification

Please amend the paragraph on page 4, lines 20-25 as follows (inserting trademark related indications therein):

Display electronics of the present invention are illustrated in FIG. 3. The display electronics 36 includes a decryption integrated circuit 38 and a display integrated circuit 40. The display electronics 36 form a portion of the display apparatus 26. The display circuit 40 includes a driver circuit 42 and a Grating Light Valve™ (GLV®) 44. The decryption circuit 38 is coupled to the driver circuit 42 of the display circuit 40. The driver circuit 42 is coupled to the GLV 44.



### Claim Amendments

Please amend claims to be as follows.

1. (currently amended) A method of securely displaying visual data comprising the steps of:

generating a private key and a corresponding public key for a display apparatus;

securely storing the private key within the display apparatus;

communicating the public key from the display apparatus to an encryption apparatus;

[[a.]] encrypting the visual data at the encryption apparatus using the public key, whereby encrypted visual data is formed;

[[b.]] transporting the encrypted visual data ~~to a display apparatus~~ from the encryption apparatus to the display apparatus;

[[c.]] decrypting the encrypted visual data within the display apparatus such that an electronic version of the visual data is maintained within circuit elements that are substantially inaccessible; and

[[d.]] displaying the visual data as a visual image.

2. (original) The method of claim 1 wherein the circuit elements comprise integrated circuit elements.
3. (original) The method of claim 2 wherein the integrated circuit elements comprise a display circuit and a diffractive light valve, the diffractive light valve displaying the visual image.
4. (currently amended) The method of claim 3 wherein the diffractive light valve comprises a ~~grating~~ diffractive light valve.

5. (original) The method of claim 4 wherein the integrated circuit elements comprise portions of a single integrated circuit.
6. (currently amended) The method of claim 4:  
 [[a.]] wherein the integrated circuit elements comprise individual integrated circuits; and  
 [[b.]] further comprising the steps of encoding and decoding the visual data in order to transfer the visual data between the individual integrated circuits.
7. (currently amended) The method of claim 4 wherein the display circuit comprises a driver circuit for driving the ~~grating~~ diffractive light valve.
8. (original) The method of claim 4 wherein the step of displaying the visual data comprises scanning a line image over a display screen such that the visual image has low persistence.
9. (original) The method of claim 4 wherein the integrated circuit elements comprise a decryption circuit.
10. (original) The method of claim 4 wherein the step of transporting the encrypted visual data comprises electronic transmission.
11. (original) The method of claim 10 wherein the electronic transmission is selected from the group consisting of satellite transmission, optical fiber transmission, and internet transmission.

12. (currently amended) The method of claim 4 wherein the step of transporting the encrypted visual data comprises recording the encrypted visual data on a storage [[media]] medium and physically transporting the storage [[media]] medium.
13. (currently amended) The method of claim 12 wherein the storage [[media]] medium comprises a standard storage [[media]] medium.
14. (currently amended) The method of claim 12 wherein the storage [[media]] medium comprises a non-standard storage [[media]] medium.
15. (canceled)
16. (currently amended) The method of ~~claim 15~~ claim 1 wherein the step of generating the [[public]] private key and the [[private]] corresponding public key takes place within the display apparatus.
17. (currently amended) The method of ~~claim 15~~ claim 1 [[a.]] wherein the step of generating the [[public]] private key and the [[private]] corresponding public key takes place outside of the display apparatus; and [[b.]] further comprising the step of inputting the private key to the display apparatus in such a manner that human access to the private key is substantially unavailable.
18. (canceled)
19. (currently amended) A system for securely transmitting and displaying visual data comprising:

[[a.]] an encryption apparatus for encrypting the visual data, whereby encrypted visual data is formed;

[[b.]] means for transporting the encrypted visual data from the encryption apparatus to a display facility; and

[[c.]] a display apparatus located at the display facility that receives the encrypted visual data, the display apparatus decrypting the encrypted visual data such that an electronic version of the visual data is maintained within circuit elements that are substantially inaccessible, the display apparatus displaying the visual data as a visual image,

wherein the encryption apparatus uses a public key for encrypting the visual data, and

wherein the display apparatus uses a private key for decrypting the visual data, the private key residing within the display apparatus.

20. (original) The system of claim 19 wherein the circuit elements comprise integrated circuit elements.
21. (original) The system of claim 20 wherein the integrated circuit elements comprise a display circuit and further wherein the display circuit comprises a diffractive light valve for displaying the visual image.
22. (original) The system of claim 21 wherein the light valve comprises a grating light valve.
23. (original) The system of claim 22 wherein the integrated circuit elements comprise portions of a single integrated circuit.

24. (original) The system of claim 22 wherein the integrated circuit elements comprise individual integrated circuits and further wherein the integrated circuit elements encode and decode the visual data to transfer the visual data between the individual integrated circuits.
25. (original) The system of claim 22 wherein the display apparatus includes a scanning device for scanning a linear image over a display screen such that the visual image has low persistence.
26. (original) The system of claim 22 wherein the means for transporting the encrypted visual data includes means for electronic transmission.
27. (original) The system of claim 26 wherein the means for electronic transmission is selected from the group consisting of satellite transmission, optical fiber transmission, and internet transmission.
28. (currently amended) The system of claim 22 wherein the means for transporting the encrypted visual data includes a storage [[media]] medium, the storage [[media]] medium holding the encrypted visual data during transport of the storage . [[media]] medium.
29. (original) The system of claim 28 wherein the storage [[media]] medium comprises a standard storage [[media]] medium.
30. (original) The system of claim 28 wherein the storage [[media]] medium comprises a non-standard storage [[media]] medium.

31. (canceled)
32. (currently amended) The system of [[claim 31]] claim 19 wherein the display apparatus generates the public key and the private key.
33. (currently amended) The system of [[claim 31]] claim 19 wherein the public key and the private key have been generated outside of the display apparatus and further wherein the private key has been generated an input to the display apparatus in such a manner that human access to the private key is substantially unavailable.
34. (canceled)
35. (currently amended) A display apparatus for displaying encrypted visual data comprising circuit elements that are substantially inaccessible, the circuit elements comprising a decryption circuit for decrypting the encrypted visual data, whereby visual data is formed, the circuit elements comprising a display circuit for displaying the visual data as a visual image, such that an electronic version of the visual data is maintained within the circuit elements, wherein the display apparatus uses a private key for decrypting the encrypted visual data, wherein the private key resides within the display apparatus, and wherein the encrypted visual data was previously generated using a public key corresponding to the private key.
36. (original) The display apparatus of claim 35 wherein the display circuit comprises a diffractive light valve for displaying the visual image.

37. (original) The display apparatus of claim 36 wherein the diffractive light valve is a grating light valve.

38. (currently amended) A display apparatus for displaying encrypted visual data comprising:

[[a.]] a decryption circuit for decrypting the encrypted visual data, whereby the visual data is formed; and

[[b.]] a ~~[[grating]]~~ diffractive light valve for displaying the visual data as a visual image,

wherein the display apparatus uses a private key for decrypting the encrypted visual data,

wherein the private key resides within the display apparatus, and

wherein the encrypted visual data was previously generated using a public key corresponding to the private key.

### Remarks

Claims 1-14, 16-17, 19-33 and 35-38 remain in this application. Claims 15, 18 and 34 are hereby canceled without prejudice. Claims 1, 4, 6-7, 12-14, 16-17, 19, 28, 32-33, 35, and 38 are hereby amended. No new matter is being added.

### Claim Rejections -- 35 USC §§ 102 and 103

Claims 1-3, 18-21, and 34-36 were rejected under 35 U.S.C. 102(b) as being anticipated by or unpatentable over Morley et al. (WO 99/59335) or Morley et al. in view of Kowarz et al. Independent claims 1, 19, 35, and 38 are hereby amended so that it now includes various additional limitations relating to the novel encryption scheme of the present invention. Applicants respectfully traverse these rejections in relation to the claims as now amended.

For example, claim 1 as amended now recites as follows:

1. A method of securely displaying visual data comprising the steps of:  
 generating a private key and a corresponding public key for a display apparatus;  
 securely storing the private key within the display apparatus;  
 communicating the public key from the display apparatus to an encryption apparatus;  
 encrypting the visual data at the encryption apparatus using the public key, whereby encrypted visual data is formed;  
 transporting the encrypted visual data from the encryption apparatus to the display apparatus;  
 decrypting the encrypted visual data within the display apparatus such that an electronic version of the visual data is maintained within circuit elements that are substantially inaccessible; and  
 displaying the visual data as a visual image.

Per the above, the method of claim 1 now requires "generating a private key and a corresponding public key for a display apparatus", "securely storing the private key within the display apparatus", "communicating the public key from the display apparatus to an encryption apparatus", and "encrypting the visual data at an encryption apparatus



using the public key, whereby encrypted visual data is formed". These limitations are supported, for example, by FIGS. 1 and 2 and the description thereof on pages 3 and 4.

The encryption in Morley et al. is discussed as being performed at the compression/encryption system **110** located at a central hub **102** shown in FIG. 2A. Morley et al. states that the encryption is preferably performed using "real-time digital sequence scrambling of both image and audio programming". (See page 21, lines 12-21 of Morley et al.) Nowhere in Morley et al. is there a disclosure or suggestion of a method by which a public/private key pair for the encryption is generated for a display apparatus, the private key is securely stored within the display apparatus, the public key is communicated from the display apparatus to the encryption apparatus, and the visual data is encrypted at the encryption apparatus using the public key.

Morley does not disclose or suggest encryption keys for a display apparatus. On the contrary, Morley et al. teaches an "encrypted program key" that is for a video program. Hence, Morley et al. teaches against this claim limitation.

Moreover, Morley does not disclose or suggest communication of an encryption key from a display apparatus to an encryption apparatus. In contrast, Morley teaches that the encrypted program key is transmitted to authorized presentation or theater locations. (See page 22, lines 5-19 of Morley et al.) Hence, Morley also teaches against the claim limitation.

In addition, there is no disclosure or suggestion in Morley et al. of the secure storage of a private key at a display apparatus. Morley et al. merely discloses that an encrypted program key may be transferred days, weeks or just before an authorized showing to the theater location using a low data rate link or transportable storage media.

Regarding Kowarz et al., Kowarz et al. is cited in relation to a "grating light valve" aspect. Kowarz et al. does not disclose or suggest the above discussed limitations relating to the public/private key encryption scheme of the claimed invention.

Therefore, for at least the above-discussed reasons, claim 1 as amended is now patentably distinguished over the cited art. Claims 2-14 and 16-17 depend from claim 1 and so are patentably distinguished over the cited art for at least the same reasons.

In similar fashion, independent claims 19, 35, and 38 are also amended in relation to the disclosed public/private key encryption scheme. Claim 19 now recites that "the encryption apparatus uses a public key for encrypting the visual data" and that "the display apparatus uses a private key for decrypting the visual data, the private key residing within the display apparatus." Similarly, claims 35 and 38 now recite that "the display apparatus uses a private key for decrypting the encrypted visual data", "the private key resides within the display apparatus", and "the encrypted visual data was previously generated using a public key corresponding to the private key." As discussed above, the cited art does not disclose or suggest these limitations. Hence, claims 19, 35 and 38 as amended are now patentably distinguished over the cited art.

Claims 20-30 and 32-33 depend from claim 19 and so are patentably distinguished over the cited art for at least the same reasons as discussed above in relation to claim 19. Claims 36-37 depend from claim 35 and so are patentably distinguished over the cited art for at least the same reasons as discussed above in relation to claim 35.

Conclusion

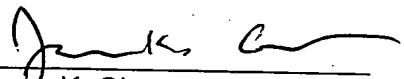
For at least the above-discussed reasons, applicants believe that claims 1-14, 16-17, 19-33 and 35-38 are now patentably distinguished over the prior art. Favorable action is respectfully requested.

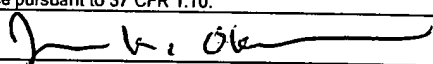
The examiner is also invited to call the below-referenced attorney to discuss this case.

Respectfully Submitted,

Robert W. Corrigan et al.

Dated: July 16, 2004

  
 James K. Okamoto, Reg. No. 40,110  
 Tel: (408) 436-2111  
 Fax: (408) 436-2114

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